	Application No.	Applicant(s)
Notice of Allowability	10/602,223	YAMAGAMI, KENJI
	Examiner	Art Unit
	Tammy T. Nguyen	2144
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a) or other appropriate communicati IGHTS. This application is subject	application. If not included ion will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>December 19, 2005</u> .		
2. X The allowed claim(s) is/are 1,3,4,7,12 and 24-26.		
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 		
5. X CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ⊠ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🛛 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u> .	
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the	e Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the ICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summa Paper No./Mail I 7. Examiner's Amer 8. Examiner's State 9. Other WILLIAM C.	Date Indiment/Comment ment of Reasons for Allowance

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United States Patent and Trademark Office

COMMISSIONER FOR PATEN UNITED STATES PATENT AND TRADEMARK OFFI Washington, D.C. 20; www.uspto.c

Reasons for allowance

- 1. The following is an examiner's statement of reasons for allowance:
- 2. Claims 1 and 2 are allowed in response to applicant's persuasive arguments.
- 3. The following is an examiner's statement of reasons for allowance: the closet prior arts of record (James Bergsten, U.S. Patent No. 6,282,610) and (LeCrone et al., U.P. Patent No. 6,631,477) do not teach or suggest storages system receiving data containing a journal to mirror the first data volume in the third data volume, wherein the journal comprises the write data and sequence number indicating write ordering to the first data volume, and wherein the write request from the first host to the first storage system completes after the first data is received by the second storage system; wherein the write request from the first host to the first storage completes independently of the second data being received by the third storage system; and wherein the write data to be stored on the third data volume is generated according to the write order provided by sequence number of the journal that is contained in the second data, in combine with all the elements of each independent claim as argue by applicant (see page.8 [0038], pag.9 [0042-0044], page.11 [0049-0051], page.12 [0053], page.15, [0066], page.16 [0069 and

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page.17[0072-0073] of Applicant's enabling portion of the specification). Bergsten only teaches first, second, third and to n storages system which is including storage controller and data volume in each of storage system, and each storage controller configure to receive a request form each first host and store write data associate with the request. Beside, LeCrone only teaches the back up system, which is receiving first data containing the write data to mirror the first volume in second data volume. However, the prior art of record fails to teach or suggest individually or in combination a remote copy system. Applicant's argument have considered persuasive, in light of the claim limitation as well as the enabling portion of the specification

- 4. All dependent claims further limit the independent claim. Therefore, they are also allowed.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiries concerning this communication or earlier communications from the examiner should be directed to **Tammy T. Nguyen** who may be reached via telephone at (571) 272-3929. The examiner can normally be reached Monday through Friday between 8:00 a.m. and 5:00 p.m. eastern standard time.

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If you need to send the Examiner, a facsimile transmission regarding this instant application, please send it to (703) 872-9306. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, VAUGHN JR WILLIAM, may be reached at (571) 272-3922.

TTN

March 1, 2006

WILLIAM C. VAUGHN, JR. PRIMARY EXAMINER